

DECLARATION FOR PATENT APPLICATION

As the below-named inventors, we hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled USE OF PHOSPHOROTHIOLATE POLYNUCLEOTIDES IN LIGATING NUCLEIC ACIDS, the specification of which

			_ \	is attached hereto as	Attorney Docket
				No	
		X	_	was filed on June 15,	2001, as Application
•				Serial No. 09/882,274	(Attorney Docket No. P
				RD 4806)	
and	was	amended	on	(or amended through)	
					(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to myself to be material to patentability as defined in Title 37, Code of Federal Regulations, Sec. 1.56.

Under Sec. 1.56, information is material to patentability when it is not cumulative to information already of

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Serial No.: Filed:

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record or being made of record in the application, and (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or (2) It refutes, or is inconsistent with, a position the applicant takes in: (a) Opposing an argument of unpatentability relied on by the U.S. Patent and Trademark Office, or (b) Asserting an argument of patentability.

I hereby claim the benefit under Title 35, United States Code, § 119(e) of the United States provisional application(s) listed below, which was converted to a provisional application by Petition under 37 C.F.R. Sec. 1.53(c)(2)(i), and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 that became available between the filing date of the prior application(s) listed below and the filing date of this non-provisional application:

Application Serial No.	<u>Filing Date</u>	Status
60/290,313	May 10, 2001	Pending

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or

Burgin and Stewart

Serial No.: Filed:

09/882,274 June 15, 2001

Page 3

imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor:	Alex B. Burgin, Jr.
Inventor's signature:	I P By
Date:	9-5.01
Residence:	Bainbridge Island, Washington
Citizenship:	USA
Post Office Address:	30 indredge Island WA 98110
Full name of second inventor:	Lance J. Stewart
Inventor's signature:	
Date:	
Residence:	Bainbridge Island, Washington
Citizenship:	
Post Office Address:	
•	

Inventors:
Serial No.:

Burgin and Stewart

cial No.: 09/882,274

Filed: Page 3 09/882,274 June 15, 2001



imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor:	Alex B. Burgin, Jr.
Inventor's signature:	
Date:	
Residence:	Bainbridge Island, Washington
Citizenship:	
Post Office Address:	
Full name of second inventor:	Lance J Stewart
Inventor's signature:	-/ Chut
Date:	9/05/01
Residence:	Bainbridge Island, Washington
Citizenship:	USA.
Post Office Address:	16075 NE. WINTHER, RD. BAINDRIDGE IL. WA 98110
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Assignee San Diego State University Foundation is the co-owner of the entire right, title and interest of U.S. patent application Ser. No. 09/882,274, filed on June 15, 2001, as attorney docket number P-RD 4806, and entitled USE OF PHOSPHOROTHIOLATE POLYNUCLEOTIDES IN LIGATING NUCLEIC ACIDS, and any subsequently filed divisional, continuation, continuation-in-part or reissue application, including international and foreign applications claiming priority thereto.

The Assignee hereby appoints the following attorneys to prosecute these applications and to transact all related business in the United States Patent and Trademark Office and any international and foreign patent offices:

CATHRYN CAMPBELL, Registration No. 31,815; DAVID A. GAY, Registration No. 39,200; CALVIN A. FAN, Registration No. 38,444; ANDREA L. GASHLER, Registration No. 41,029; JAMES J. WONG, Registration No. 34,949; DEBORAH L. CADENA, Registration No. 44,048; MELANIE K. WEBSTER, Registration No. 45,201; ASTRID R. SPAIN, Registration No. 47,956; MARGARET M. PARR, Registration No. 48,111; and KIMBERLY J. PRIOR, Registration No. 41,483.

Please direct all telephone calls to Cathryn Campbell at (858) 535-9001 and address all correspondence to:

CATHRYN CAMPBELL CAMPBELL & FLORES LLP 4370 La Jolla Village Drive 7th Floor San Diego, California 92122 USPTO CUSTOMER NO. 23601



POWER OF ATTORNEY FOR PATENT APPLICATION BY ASSIGNEE SAN DIEGO STATE UNIVERSITY FOUNDATION Attorney Docket No.: P-RD 4806 Serial No.: 09/882,274

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Missing Parts, Commissioner for

Patents, Washington, D.C. 20231, on September 26, 2001.

By David A. Gay, Reg. No. 39,200

Burgin and Stewart

Serial No.:

09/882,274

Filed:

June 15, 2001

Page 2

The undersigned is authorized to sign on behalf of the Assignee.

Signature:

Name (typed):

Title:

Assignee:

- •

Date:

Man Morton

STUART G. GORDON

Director, Technology Transfer Office

SAN DIEGO STATE UNIVERSITY FOUNDATION

8/24/01



STATEMENT UNDER 37 C.F.R. § 3.73(b)

Title of Application:

USE OF PHOSPHOROTHIOLATE POLYNUCLEOTIDES

IN LIGATING NUCLEIC ACIDS

Application Ser. No.:

09/882,274

Filed:

June 15, 2001

Inventor:

Burgin and Stewart

Attorney Docket No.:

P-RD 4806

EMERALD BIOSTRUCTURES, INCORPORATED, a corporation, states that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor of the application. A copy of the executed assignment, submitted for recording, is attached hereto as documentary evidence of the chain of title to the assignee.

The undersigned is empowered to sign this statement on behalf of the assignee.

Date: 9/5/61

Signature:

Name: LANGE STEWA

Title: Plesident



Statement Under CFR 3.73(b) by Emerald Biostructures, Incorporated Attorney Docket No.: P-RD 4806 Serial No.: 09/882,274

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Missing Parts, Commissioner for Patents, Washington, D.C. 20231, on September 26, 2001.

By David A. Gay, Reg. No. 39,200



DECLARATION FOR PATENT APPLICATION Attorney Docket No.: P-RD 4806 Serial No.: 09/882,274

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By

David A. Gay, Reg. No. 39,200

POWER OF ATTORNEY FOR PATENT APPLICATION BY ASSIGNEE 16 2001

Assignee Emerald Biostructures, Incorporated is the co-owner of the entire right, title and interest of U.S. patent application Ser. No. 09/882,274, filed on June 15, 2001, as attorney docket number P-RD 4806, and entitled USE OF PHOSPHOROTHIOLATE POLYNUCLEOTIDES IN LIGATING NUCLEIC ACIDS, and any subsequently filed divisional, continuation, continuation-in-part or reissue application, including international and foreign applications claiming priority thereto.

The Assignee hereby appoints the following attorneys to prosecute these applications and to transact all related business in the United States Patent and Trademark Office and any international and foreign patent offices:

CATHRYN CAMPBELL, Registration No. 31,815; DAVID A. GAY, Registration No. 39,200; CALVIN A. FAN, Registration No. 38,444; ANDREA L. GASHLER, Registration No. 41,029; JAMES J. WONG, Registration No. 34,949; DEBORAH L. CADENA, Registration No. 44,048; MELANIE K. WEBSTER, Registration No. 45,201; ASTRID R. SPAIN, Registration No. 47,956; MARGARET M. PARR, Registration No. 48,111; and KIMBERLY J. PRIOR, Registration No. 41,483.

Please direct all telephone calls to Cathryn Campbell at (858) 535-9001 and address all correspondence to:

CATHRYN CAMPBELL CAMPBELL & FLORES LLP 4370 La Jolla Village Drive 7th Floor San Diego, California 92122 USPTO CUSTOMER NO. 23601

Burgin and Stewart

Serial No.: Filed:

09/882,274 June 15, 2001

Page 2

The undersigned is authorized to sign on behalf of the Assignee.

Signature:

Name (typed):

Title:

Assignee:

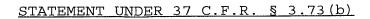
Date:

LANCE STEWART

PRESIDENT

EMERALD BIOSTRUCTURES, INCORPORATED

9/5/01





Title of Application:

USE OF PHOSPHOROTHIOLATE POLYNUCLEOTIDES

IN LIGATING NUCLEIC ACIDS

Application Ser. No.:

09/882,274

Filed:

June 15, 2001

Inventor:

Burgin and Stewart

Attorney Docket No.:

P-RD 4806

SAN DIEGO STATE UNIVERSITY FOUNDATION, a UNIVERSITY, states that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor of the application. A copy of the executed assignment, submitted for recording, is attached hereto as documentary evidence of the chain of title to the assignee.

The undersigned is empowered to sign this statement on behalf of the assignee.

Date: 8/24/01

Signature:

Name: STUME G. Gordon

Title: Director, Technology Trans for Office



Recordation Form Cover Sheet and executed Assignment by Lance J. Stewart Attorney Docket No.: P-RD 4806 Serial No.: 09/882,274

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Missing Parts, Commissioner for Patents, Washington, D.C. 20231, on September 26, 2001.

Ву

David A. Gay, Req. No. 39,200



Statement Under CFR 3.73(b) by San Diego State University Foundation Attorney Docket No.: P-RD 4806 Serial No.: 09/882,274

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Missing Parts, Commissioner for Patents, Washington, D.C. 20231, on September 26, 2001.

Ву

David A. Gay, Reg. No. 39,200



ocket No.: P-RD 4806



FORM PTO-1595 (Modified) RECORDATION FO (Rev. 6-93)	
OMB No. 0651-0011 (exp.4/94) Copyright 1994-97 LegalStar P08/REV02 PATENT	S ONL
Tab settings → → → ▼	
	Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): Lance J. Stewart	Name and address of receiving party(ies): Name: Emerald BioStructures, Incorporated
OCT 0 1 2001	
Additional names(s) of conveying party(ies)	Internal Address:
3. Nature of conveyance:	
☑ Assignment ☐ Merger	Street Address: 7865 NE Day Rd. W.
☐ Security Agreement ☐ Change of Name	
☐ Other	City: Bainbridge Island State: WA ZIP: 98110
Execution Date: September 5, 2001	Additional name(s) & address(es) attached? ☐ Yes ☒ No
4. Application number(s) or registration numbers(s):	
If this document is being filed together with a new application,	the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
09/882,274	
Additional numbers attac	hed? ☐ Yes ☒ No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Cathryn Campbell	7. Total fee (37 CFR 3.41):\$ 40.00
Internal Address: CAMPBELL & FLORES LLP	☑ Enclosed - Any excess or insufficiency should be credited or debited to deposit account
	☐ Authorized to be charged to deposit account
Street Address: 4370 La Jolla Village Drive, 7th Floor	8. Deposit account number:
	03-0370
City: San Diego State: CA ZIP: 92122	
DO NOT	USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David A. Gay, Reg. No. 39,200

Name of Person Signing

4.26.31 Date

Total number of pages including cover sheet, attachments, and document:



ASSIGNMENT

This Assignment is made by Lance J. Stewart of
Bainbridge Island, Washington, Assignor, to EMERALD
BIOSTRUCTURES, INCORPORATED, Assignee, having a place of business
at 7865 NE Day Rd. W., Bainbridge Island, Washington 98110.

WHEREAS, Assignor is a joint inventor of a new and useful USE OF PHOSPHOROTHIOLATE POLYNUCLEOTIDES IN LIGATING NUCLEIC ACIDS for which an application for United States Letters Patent was filed on June 15, 2001, in the United States Patent and Trademark Office, bearing Serial No. 09/882,274 and identified as Attorney Docket No. P-RD 4806.

WHEREAS, Assignor believes that Assignor is one of the original joint inventors of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the invention and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor sells, assigns, and transfers to Assignee, the entire right, title, and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the

Burgin and Stewart

Serial No.: Filed:

09/882,274 June 15, 2001

Page 2

name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignor agrees that, upon request and without further compensation, but at no expense to Assignor, Assignor and Assignor's legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

Assignor represents and warrants that Assignor has not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

Burgin and Stewart

Serial No.: Filed:

09/882,274 June 15, 2001

Page 3

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date(s) provided below.

Assignor: Lance J. Stewart

Signature

Date

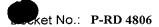
STATE OF _	Washinaton)
COUNTY OF	Kitsap)

on September 5 200! before me, Kristen Hibbs
personally appeared <u>lance J. Stewart</u>
x personally known to me - OR proved to me on the basis
of satisfactory evidence to be the person(s) whose name(s) is/ar
subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized
capacity(ies), and that by his/her/their signature(s) on the
instrument the person(s), or the entity upon behalf of which the
person(s) acted, executed the instrument.

WITNESS by hand and official

(Signature of Notary)





FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp.4/94) Copyright 1994-97 LegalStar



RECORDATION FORM COVER SHEE	ET/O	M	U - TO ARTHENT OF COMMERCE
RECORDATION FORM COVER SHEE PATENTS ONLY			Patent and Trademark Office

P08/REV02	
Tab settings → → → ▼	Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): Alex B. Burgin, Jr. OCT 0 1 2001	2. Name and address of receiving party(ies): Name: San Diego State University Foundation Internal Address:
Additional names(s) of conveying party(ies)	
3. Nature of conveyance:	
	Street Address: 5300 Campanile Drive
☐ Security Agreement ☐ Change of Name	
☐ Other	City: San Diego State: CA ZIP: 92182
Execution Date: September 5, 2001	Additional name(s) & address(es) attached? Yes No
4. Application number(s) or registration numbers(s): If this document is being filed together with a new application,	the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
09/882,274	
Additional numbers attac	hed? ☐ Yes ☒ No
	neu! res No
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Cathryn Campbell	7. Total fee (37 CFR 3.41):\$ 40.00
Internal Address: CAMPBELL & FLORES LLP	☑ Enclosed - Any excess or insufficiency should be credited or debited to deposit account
	☐ Authorized to be charged to deposit account
Street Address: 4370 La Jolla Village Drive, 7th Floor	8. Deposit account number:
GA 717 00100	03-0370
City: San Diego State: CA ZIP: 92122	USE THIS SPACE
DO NOT	USE I TIIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing information of the original document.	ation is true and correct and any attached copy is a true copy
David A. Gay, Reg. No. 39,200	a.C. 9-26.01
Name of Person Signing	Signature Date
Total number of pages including cover sh	ieet, attachments, and document.

GODY

ASSIGNMENT

This Assignment is made by Alex B. Burgin, Jr. of Bainbridge Island, Washington, Assignor, to SAN DIEGO STATE UNIVERSITY FOUNDATION, Assignee, having a place of business at 5300 Campanile Drive, San Diego, California 92182-1998.

WHEREAS, Assignor is a joint inventor of a new and useful USE OF PHOSPHOROTHIOLATE POLYNUCLEOTIDES IN LIGATING NUCLEIC ACIDS for which an application for United States Letters Patent was filed on June 15, 2001, in the United States Patent and Trademark Office, bearing Serial No. 09/882,274 and identified as Attorney Docket No. P-RD 4806.

WHEREAS, Assignor believes that Assignor is one of the original joint inventors of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the invention and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor sells, assigns, and transfers to Assignee, the entire right, title, and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the

Burgin and Stewart

Serial No.: Filed:

09/882,274 June 15, 2001

Page 2

name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignor agrees that, upon request and without further compensation, but at no expense to Assignor, Assignor and Assignor's legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

Assignor represents and warrants that Assignor has not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

Burgin and Stewart

Serial No.: Filed:

09/882,274 June 15, 2001

Page 3

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date(s) provided below.

Assignor: Alex B. Burgin, Jr.

on 9-5-01, before me, Lisa D Johnson
personally appeared Alex B. Bugin, Jr.
personally known to me - OR proved to me on the basis
of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized
capacity(ies), and that by his/her/their signature(s) on the
instrument the person(s), or the entity upon behalf of which the
person(s) acted, executed the instrument.

WITNESS by hand and official seal.